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| 1 | If the basic salary of an employee is input through the keyboard . WAP to determine his gross salary if his dearness allowance is 40% of his basic salary, house rent allowance 20% of his basic salary. |
| 2 | Write a programme to find the area of triangle when the sides of a triangle are given. |
| 3 | Write a C programme for the following problems: a) A programme to calculate discount when marked price and discount percentage is given. b) A programme to convert Nepalese currency into Indian currency. c) A programme to find the volume and the total surface area of a cube when a side of the cube is given. d) Write a programme to enter marks of five students and calculate the percentage and total. |
| 4 | Perform the following calculations and result according to the rules of C programming. a) $5*4/2+3/3+8-2$ b) $1+3*4/3-3+1.5/3$ c) $3*4/5+5/5+4-1+6/8$ d) $2*((8/3)+4*(5-2))$ |
| 5 | WAP to find whether the given year is leap or not |
| 6 | Write a programme to input a coordinate (x,y) and find whether it lies in first, second, third or fourth quadrant. |
| 7 | WAP a programme to input age of a person and check whether the person is child, teenager, young or old. |
| 8 | WAP to determine the roots of a quadratic equation $ax^2+bx+c=0$ |
| 9 | If a four digit number is input through the keyboard. WAP to check whether it is a palindrome or not. |
| 10 | WAP to check whether a character is upper case, lower case letter. a) Using islower and isupper function. b) By comparing with ASCII values. |
| 11 | Compare switch case and if else statements. |

Holiday Homework 2073

Subject : Computer Programming (IOE, WRC)

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| 12 | What is the use of logical AND, and logical OR operators in c programming. Explain with program examples and output. |
| 13 | If a four digit number is input through the keyboard. WAP to check whether it is palindrome or not. |
| 14 | Write a programme to find x^y without using pow function.. |
| 15 | If two numbers until the user enters zero . calculate the average of positive and negative numbers separately excluding zero. Also count the total no of positive and negative numbers entered using do while loop. |
| 16 | If two numbers are input through the keyboard, WAP algorithm and flowchart to find the sum of those numbers which is exactly divisible by 5 between n1 and n2. |
| 17 | WAP to compute: $Sum = 1 + 2/2! + 3/3! + + n/n!$ |
| 18 | WAP to print prime numbers between ranges given by user. [Inbetween n1 to n2] |
| 19 | WAP to check whether a number is perfect number or not. |
| 20 | WAP to display all Armstrong numbers between a given ranges.[Input n1 to n2] |
| 21 | WAP to read an integer and add the individual digits contained in it until the final sum is a single digit. |
| 22 | What are the features of good computer programming? Explain the process involved in converting a program written in HLL to an executable program? |
| 23 | What is the importance of header files in c-programming? |
| 24 | What are the steps involved during the programming? |
| 25 | What is an operators? List operators used in c? Describe 3 of them. |
| 26 | What are the different types of decision control mechanism used in C? |

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| 27 | <p>What is the output of given expression and explain how that out put came:</p> <pre>main() { int a=2, b=3, c; a=(b++) + (++b) + a; c=a>b? a: b; b=(a++) + (b--) +a; c= (c++) * (b--); printf("a=%d \n b=%d \n c=%d", a,b,c); }</pre> |
| 28 | What is function? Write its importance. |
| 29 | WAP using function to pass 3 numbers from main and display the smallest number from main. |
| 30 | WAP to find the entered number is prime or not using function call prime() passing the number from main. |

WAP to display the patterns: a)

a)

```

      *
    * *
  * * *
* * * *

```

b)

```

5 4 3 2 1 0
5 4 3 2 1
5 4 3 2
5 4 3
5 4
5

```

c)

```

5 5 5 5 5
4 4 4 4
3 3 3
2 2
1

```

d)

```

      1 2 3
    1 2 3 4 5
  1 2 3 4 5 6 7

```

e)

```

* * * * *
+ + + + +
  + + +
    +

```

f)

```

      3
    6 9
  12 15 18
21 24 27 30

```

g)

```

      * * *
    * * * *
  * * * * *
* * * * *

```

h)

```

      5
    5 4 5
  5 4 3 4 5
5 4 3 2 3 4 5
5 4 3 2 1 2 3 4 5

```

i)

```

      1
    2 3
  4 5 6
7 8 9 10
11 12 13 14 15

```

NOTE: There will be a class test after returning from the vaccation.